installation instructions

ACCESSORY MOTORMASTER® IV HEAD PRESSURE CONTROLLER PART NUMBER 389034-202

548D/549B
Sizes 036-120
551B/558D/
580D/581B
Sizes 036-150

Cancels: New

IIK 548-36-32
3/15/99

SAFETY CONSIDERATIONS

Installation, start-up, and servicing of this equipment can be hazardous due to system pressures, electrical components, and equipment location (roofs, elevated structures, etc.)

Only trained, qualified installers and service technicians should install, start up, and service this equipment.

When working on this equipment, observe precautions in the literature, tags, stickers, and labels attached to the equipment, and any other safety precautions that may apply.

⚠ **WARNING:** Open all remote disconnects before servicing this equipment. Electrical shock could result in personal injury.

INTRODUCTION

The Motormaster IV Head Pressure Controller is a cycle control device activated by a pressure sensor mounted on the Schrader port of the liquid line (see Fig. 1). It is designed to cycle the outdoor-fan motors to maintain the saturated condensing temperature within normal operating limits of approximately 110 F (high) and 60 F (low). The compressor maintains working head pressure at low ambient temperatures down to −20 F.

INSTALLATION

1. Disconnect power to unit.
2. Disconnect outdoor-fan motor (OFM) wires at the contactor (21).
3. Securely connect pressure switch flare nut (on pressure switch assembly) to either male flare fitting on adapter tee provided in kit (see Fig. 2). Be sure to **use a flare gasket** (provided in the kit.)
4. Locate service fitting on tube. Remove cap from service fitting and place on remaining male flare fitting on adapter tee.
5. Securely connect female flare nut on adapter tee to service fitting. Be sure to **use a flare gasket** (provided in the kit).
6. Check all refrigerant connections for leaks, repair if necessary.
7. Connect OFM wire to one lead of pressure switch using a crimp connector or wire nut (see Fig. 3).
8. Connect other lead of pressure switch to T1 (21) at the unit contactor, securing excess wire.
9. If installing on a Heat Pump, you *must* add a relay 24-volt coil (normally closed) and wire per Fig. 3.
10. Reconnect power to unit.

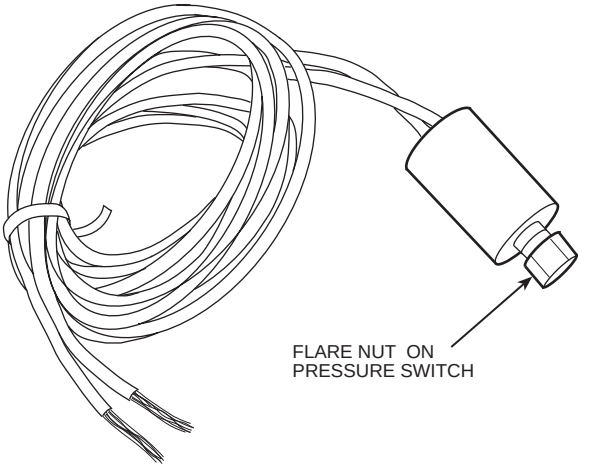


Fig. 1 — Motormaster IV Head Pressure Controller

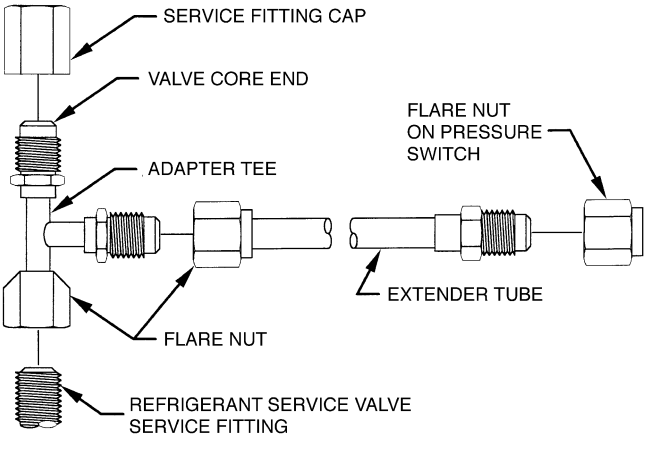
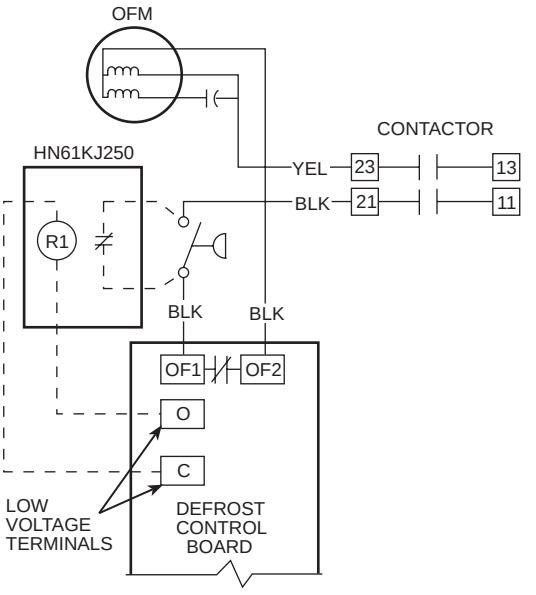


Fig. 2 — High- and Low-Pressure Switch Refrigerant Connections



LEGEND

OFM — Outdoor-Fan Motor

– – – – Aux Wiring for Heat Pump

R1 HN61KJ250 or Equivalent

389034-202 Pressure Switch

Fig. 3 — Wiring Schematic — 548D/549B/551B/558D/580D/581B

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